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DMC-TZ10
Digital Camera

- LUMIX Super Zoom Digital Camera
- 12.1 megapixel, 25mm Wide-angle 12x Optical Zoom with LEICA DC Lens
- Intelligent Resolution Technology and 16x Intelligent Zoom
- HD Movie in AVCHD Lite and HDMI Compatibility Featuring VIERA Link
- Travel Mode with GPS for Easy Organizing Images of Travel
- P/A/S/M Mode for More Creative Shots
- iA (Intelligent Auto) Mode with POWER O.I.S. (Optical Image Stabilizer)

Super Zoom Camera TZ10 - 25mm Ultra Wide-angle 12x Optical Zoom (16x Intelligent Zoom) Camera with AVCHD Lite Movie Recording featuring GPS.

Optics

Camera Effective Pixels	12.1 Megapixels
Sensor Size / Total Pixels / Filter	1/2.33-type / 14.5 Total Megapixels / Primary Color Filter
Aperture	F3.3 - 4.9/ Multistage Iris Diaphragm (F3.3 - 6.3 (W) / F4.9 - 6.3 (T))
Optical Zoom	12x
Focal Length	f=4.1-49.2mm (25-300mm in 35mm equiv.)
Extra Optical Zoom (EZ)	14.7x (4:3 / 8M), 18.8x (4:3 / 5M), 23.4x (under 3M)
Intelligent Zoom	16x
Lens	LEICA DC VARIO-ELMAR 10 elements in 8 groups (2 Aspherical Lenses / 3 Aspherical surfaces / 2 ED lenses)
2-Speed Zoom	Yes
Optical Image Stabilizer	Power O.I.S. (Off / Auto / Mode1 / Mode2)
Digital Zoom	4x (Max. 48.0 x combined with Optical Zoom without Extra Optical Zoom) (Max. 93.8 x combined with Extra Optical Zoom)
Focusing Area	Normal: Wide 50 cm - infinity / Tele 200 cm - infinity Macro / Intelligent AUTO / Clipboard: Wide 3 cm - infinity / Tele 100cm - infinity
Focus Range Display	Yes
AF Assist Lamp	Yes
Focus	Normal / Macro, Zoom Macro, Quick AF On/Off (On in Intelligent Auto), Continuous AF On/Off, AF Tracking

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AF Metering	Face / AF Tracking / 11pt / 1pt HS / 1pt / Spot
Shutter Speed	Still: 60 - 1/2000 sec Starry Sky Mode : 15, 30, 60sec.
Shutter Interval	approx. 1.0 sec

Recording

ISO Sensitivity	Auto / 80 / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)
Face Recognition	Photo
Optical Image Stabilizer	Photo & Movie
Intelligent ISO Control	Photo
Face Detection	Photo & Movie
Intelligent Scene Selector	Photo (Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro) & Movie (Portrait, Scenery, Low Light, Macro)
Intelligent Exposure	Photo & Movie
AF Tracking	Photo
Digital Red Eye Correction (Red-Eye Removal)	Photo
Intelligent Resolution Technology	Photo & Movie
File Format	Still Image: JPEG(DCF/Exif2.21) Image with Audio: JPEG (DCF / Exif2.21) + QuickTime Motion picture: AVCHD Lite / QuickTime Motion JPEG
AVCHD Lite REC	NTSC / PAL (Depends on Region)
Mode Switch	[Recording] / [Playback]
One-Touch Movie Button	Yes
Mode Dial / Mode Button	Intelligent Auto, P, A, S, M, Custom, My SCN 1, My SCN 2, SCN, Clipboard
Still Image Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Panorama Assist, Sports, Night Portrait, Night Scenery, Food, Party, Candle Light, Baby1, Baby2, Pet, Sunset, High sensitivity, Hi-Speed Burst, Flash Burst, Starry Sky, Fireworks, Beach, Snow, Aerial photo, Pinhole, Film Grain, High Dynamic(Standard, Art, B&W), Photo Frame, Underwater
Movie Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Low Light, Food, Party, Candle Light, Sunset, Beach, Snow, Aerial, Pinhole, Film Grain, nderwater, High Sensitivity, High Dynamic(Standard, Art, B&W) (Activated by selecting Still Picture Scene Mode then pressing movie button. Still Picture Scene Modes without corresponding Movie Scene Mode is recorded in Normal Mode)
Continuous Shooting Mode	Full-Resolution Image, 2.3 frames/sec Max. 5 images (Standard mode), Max 3 images (Fine Mode) High-speed Burst Mode: approx. 6.0 frames/sec (image priority) approx. 10 frames/sec (speed priority) (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9)
Flash Burst Continuous Shooting Mode	Max. 5 images (Standard mode)
Motion Picture Recording	[4:3] VGA: 640 x 480 pixels, 30fps (Motion JPEG) QVGA: 320 x 240 pixels, 30 fps (Motion JPEG) [16:9] WVGA: 848 x 480 pixels, 30 fps (Motion JPEG) [HD Movie] 1280x720 pixels,

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	NTSC Mode: NTSC model: 60p(CCD output is 30p) / PAL model: 50p (CCD output is 25p) (AVCHD Lite, GSH, SH: 17Mbps / GH, H:13Mbps / GL, L:9Mbps) / 30fps (Motion JPEG)
AVCHD Lite with picture quality set to [SH] (Continuous recordable time)	Approx. 100 min
MOTION JPEG with picture quality set to [HD] (Continuous recordable time)	Approx. 100 min
AVCHD Lite with picture quality set to [SH] (Actual recordable time)	Approx. 50 min
MOTION JPEG with picture quality set to [HD] [[SH] (Actual recordable time)	Approx. 50 min
Exposure	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
Exposure Compensation	1/3 EV step, +/-2 EV
Backlight Compensation	Yes (only in Intelligent AUTO mode)
Auto (AE) Bracketing	+/- 1/3 EV ~1EV step, 3 frames
Multi-Aspect	Yes
Light Metering	Intelligent Multiple / Center Weighted / Spot
Aspect Ratio	4:3 / 3:2 / 16:9
Still Picture Recording	[4:3] 4000x3000(12M) / 3264x2448(8M) / 2560x1920(5M) / 2048X1536 (3M) / 640X480(0.3M) [3:2] 4176x2784 (11.5M) / 3392x2264 (7.5M) / 2656x1768 (4.5M) / 2048x1360 (2.5M) / 640x424 (0.3M) [16:9] 4320x2432 (10.5M) / 3552x2000 (7M) / 2784x1568 (4.5M) / 1920x1080 (2M) / 640x360 (0.2M)
Image Quality	Fine / Standard
White Balance	Auto / Daylight / Cloudy / Shade / Halogen / White Set (Selectable at Portrait, Soft Skin, Transform, Self-Portrait, Sports, Panorama Assist, Baby, Pet, High Sensitivity, Highspeed Burst, Pinhole, Photo Frame, High Dynamic, Underwater)
Quick Menu	Yes
Color Mode / Color Effect	Standard, Black & White, Sepia, Cool, Warm, Happy (only in iA Mode)
Picture Adjustment	Contrast ±2steps Sharpness ±2steps Saturation ±2steps Noise Reduction ±2steps (can be adjusted in Film Mode)
Still Image with Audio Recording	5 sec
GPS	Yes
Real-time histogram	Yes
Composition Guide line	Yes (2 pattern)
Auto Review	1sec, 2sec, Hold
Easy Zoom / Zoom Resume	No / Yes
Optical Zoom in Motion Picture	Yes
Macro Zoom	Yes
Orientation Detector	Yes

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Scene Mode Help Screen	Yes
Self Timer	2sec / 10sec
Focus Icon Select	Yes (in Face Recognition only)

Playback

Playback Mode	Normal Playback, Slideshow, Category Playback, GPS Playback, Travel Playback, Mode Playback, Favorites Playback
Thumbnails / Zoomed Playback	12,30-thumbnails / Max 16x
Calendar Display / Dual-Image Playback	Yes / No
Set Favorites / Rotate Image	Yes / No
Playback Still Images with Audio	Yes
Playback Motion Picture	Yes (AVC HD Lite/ Motion JPEG)
Slideshow Mode	All / Still Images Only / Motion Picture Only / GPS Area / Travel / Category / Favorites BGM Effect (Natural / Slow / Swing / Urban / OFF)
Show Histogram	Yes
Delete Image	Single / Multi / All / All except Favorites
DPOF Print Setting / Set Protection	Yes / Yes
Resize / Trim / Aspect Conv. / Leveling	Yes / Yes / Yes / Yes
Copy / Title Edit / Text Stamp	Yes / Yes / Yes
Cut Animation	Yes
Video Divide	Yes
PictBridge Support	Single / Multi / All / Favorites / DPOF

Setup

Movie REC Guide	Yes
Wind-Cut in Motion Picture	Yes
Travel Date / World Time	Yes / Yes

Metrics

Dimensions (W x H x D)	103.3 x 59.6 x 32.6 mm (4.07 x 2.35 x 1.28 in)
Weight	Approx. 218g with Battery and SD Memory Card (0.48 lb) Approx. 196g without Battery and SD Memory Card (0.43 lb)

Others

LCD Monitor	Field of View : approx. 100% Wide Viewing Angle AUTO Power LCD mode, Power LCD mode
Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off 0.6 - 5.3m (Wide/ISO Auto), 1.0 - 3.6m (Tele/ISO Auto)
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Built-in-Memory	Approx. 15MB

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Microphone / Speaker	Stereo(Dolby® Digital Stereo Creator) / Yes
Interface	AV Output (NTSC/PAL, NTSC only for N. America), mini HDMI, USB2.0 High speed
Viera Link	Yes
HDMI output	Video: Auto / 1080i / 720p / 480p(576p for PAL) Audio: Dolby® Digital Stereo Creator
Power	ID-Security Li-ion Battery Pack (3.6V, Minimum: 895mAh) (Included) AC Adaptor (Input: 110-240V AC) (Optional)
Battery life (approx.)	300 pictures (CIPA Standard)
Included Software	PHOTOfunSTUDIO 5.1 HD Edition (5.0 Edition for China). QuickTime.Adobe Reader
Standard Accessories	Battery Charger, Battery Pack, Battery Case, AV Cable, USB Cable, AC Cable, Hand Strap, CD-ROM
NOTE	• Motion pictures can be recorded continuously for up to 29 minutes 59 seconds in European PAL area.